

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

**Listing of Claims:**

1. (Currently Amended) A hydrogen supply system, the system comprising a first hydrogen storage material-(1) and a second hydrogen storage material-(2), wherein the two hydrogen stores are separate; and wherein the first hydrogen storage material can be activated to release hydrogen at a lower temperature than can the second hydrogen storage material; wherein at least a proportion of the hydrogen released from the first hydrogen storage material is utilised to activate the second hydrogen storage material; and wherein at least a proportion of the hydrogen released from the second hydrogen storage material is made available to a hydrogen consumption system-(3), and wherein the second hydrogen storage material-(2) is activated by oxidising a proportion of the hydrogen released from the first hydrogen storage material-(1) in a hydrogen burner unit-(4).
2. (Currently Amended) A system according to claim 1, wherein a proportion of the hydrogen released from the first hydrogen storage material-(1) is made available to the hydrogen consumption system-(3).
3. (Currently Amended) A system according to ~~any preceding claim~~ 1, wherein a proportion of the hydrogen released from the second hydrogen storage material-(2) is used to recharge the first hydrogen storage material-(1).
4. (Currently Amended) A system according to ~~any preceding claim~~ 1, wherein the first hydrogen storage material-(1) can be activated to release hydrogen at a temperature of less than 100 °C.
5. (Currently Amended) A system according to ~~any preceding claim~~ 1, wherein the second hydrogen storage material-(2) can be activated to release hydrogen at a temperature of from 250 °C to 350 °C.
6. (Currently Amended) A system according to ~~any preceding claim~~ 1 further comprising one or more heat exchangers-(5) to remove heat from the hydrogen released from the first-(1) or second-(2) hydrogen storage materials.

7. (Currently Amended) A system according to ~~any preceding claim 1~~, wherein the first hydrogen storage material ~~(1) comprises~~ is selected from the group consisting of an AB<sub>5</sub>, an AB<sub>2</sub> or and an AB type material, and any combination thereof.
8. (Currently Amended) A system according to claim 7, wherein the first hydrogen storage material ~~(1)~~ is selected from the group consisting of LaNi<sub>5</sub>, Al doped LaNi<sub>5</sub>, CeNi<sub>5</sub>, Al doped CeNi<sub>5</sub>, CaNi<sub>5</sub>, Mn doped CaNi<sub>5</sub>, TiVMn, Zr doped TiCrMn, Zr doped TiCr<sub>2</sub>, Co doped TiV<sub>2</sub>, Fe/Ti, Ti/Zr, Ti(MnV) and Ti(MnCr), or and any combination thereof.
9. (Currently Amended) A system according to ~~any preceding claim 1~~, wherein the second hydrogen storage material ~~(2)~~ comprises Mg.
10. (Currently Amended) A system according to claim 9, wherein the second hydrogen storage material ~~(2)~~ further comprises PGM.
11. (Currently Amended) A system according to claim 9 ~~or 10~~, wherein the second hydrogen storage material ~~(2)~~ is MgH<sub>2</sub> or Mg H<sub>2</sub>/Ni, or any combination thereof.
12. (Currently Amended) A system according to ~~any preceding claim 1~~, wherein the hydrogen consumption system ~~(3)~~ comprises a fuel cell.
13. (Currently Amended) A system according to ~~any of claims 1 to 11~~, wherein the hydrogen consumption system ~~(3)~~ comprises an internal combustion engine.
14. (Currently Amended) A vehicle, the vehicle comprising a system according to claim 12 ~~or claim 13~~ as a power source.
15. (Currently Amended) A method of activating a second hydrogen storage material ~~(2)~~ for supplying a hydrogen consumption system ~~(3)~~, which method comprising utilising at least a proportion of a stream of hydrogen generated by activating a separate first hydrogen storage material ~~(1)~~.